



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/674,087
Source: IFWD
Date Processed by STIC: 7/16/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 16/674,087

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence
 (2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 07/16/2004

PATENT APPLICATION: US/10/674,087

TIME: 07:34:20

Input Set : A:\MIT-0507.ST25.txt

Output Set: N:\CRF4\07162004\J674087.raw

3 <110> APPLICANT: et al., Chen
 4 Chen, et al.,
 6 <120> TITLE OF INVENTION: Compositions and Methods for Delivery of Short Interfering

RNA

7 and Short Hairpin RNA
 9 <130> FILE REFERENCE: 0492611-0507
 11 <140> CURRENT APPLICATION NUMBER: 10/674,087
 12 <141> CURRENT FILING DATE: 2003-09-29
 14 <160> NUMBER OF SEQ ID NOS: 32
 16 <170> SOFTWARE: PatentIn version 3.2
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 21
 20 <212> TYPE: DNA
 21 <213> ORGANISM: siRNA targeted to GFP (sense strand)
 23 <400> SEQUENCE: 1
 24 ggcuacgucc aggagcgcat t
 27 <210> SEQ ID NO: 2
 28 <211> LENGTH: 21
 29 <212> TYPE: DNA
 30 <213> ORGANISM: siRNA targeted to GFP (antisense strand)
 32 <400> SEQUENCE: 2
 33 ugcgcuuccug gacguagcct t
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 21
 38 <212> TYPE: DNA
 39 <213> ORGANISM: siRNA targeted to influenza virus NP transcript (sense strand)
 41 <400> SEQUENCE: 3
 42 ggaucuuauu ucuucggagt t
 45 <210> SEQ ID NO: 4
 46 <211> LENGTH: 21
 47 <212> TYPE: DNA
 48 <213> ORGANISM: siRNA targeted to influenza virus NP transcript (antisense strand)
 50 <400> SEQUENCE: 4
 51 cuccgaagaa auaagaucct t
 54 <210> SEQ ID NO: 5
 55 <211> LENGTH: 21
 56 <212> TYPE: DNA
 57 <213> ORGANISM: siRNA targeted to influenza virus PA transcript (sense strand)
 59 <400> SEQUENCE: 5
 60 gcaauugagg agugccugat t
 63 <210> SEQ ID NO: 6
 64 <211> LENGTH: 21
 65 <212> TYPE: DNA
 66 <213> ORGANISM: siRNA targeted to influenza virus PA transcript (antisense strand)

mandatory, <213> response has to
 be either
 Artificial/Unknown or Genus/Species
Does Not Comply (Cps. 1-6)
Corrected Diskette Needed
 ← please move this
 response to section
 21
 <220> - <223>.

pls
 → move this response
 21
 to section <220> -
 <223>.

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Input Set : A:\MIT-0507.ST25.txt

Output Set : N:\CRF4\07162004\J674087.raw

same errors

↓ move responses
to section 2207-
(2237.

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68 <400> SEQUENCE: 6
69 ucaggcacuc cucaauugct t
72 <210> SEQ ID NO: 7
73 <211> LENGTH: 21
74 <212> TYPE: DNA
75 <213> ORGANISM: siRNA targeted to influenza virus PB-1 transcript (sense strand)
77 <400> SEQUENCE: 7
78 gaucuguucc accauugaat t
81 <210> SEQ ID NO: 8
82 <211> LENGTH: 21
83 <212> TYPE: DNA
84 <213> ORGANISM: siRNA targeted to influenza virus PB-1 transcript (antisense strand)
86 <400> SEQUENCE: 8
87 uucaauggug gaacagauct t
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 21
92 <212> TYPE: DNA
93 <213> ORGANISM: siRNA targeted to influenza virus NP transcript (sense strand)
95 <400> SEQUENCE: 9
96 uagagagaau ggugcucuct t
99 <210> SEQ ID NO: 10
100 <211> LENGTH: 21
101 <212> TYPE: DNA
102 <213> ORGANISM: siRNA targeted to influenza virus NP transcript (antisense strand)
104 <400> SEQUENCE: 10
105 gagagacca uucucucuat t
108 <210> SEQ ID NO: 11
109 <211> LENGTH: 21
110 <212> TYPE: DNA
111 <213> ORGANISM: siRNA targeted to influenza virus M transcript (sense strand)
113 <400> SEQUENCE: 11
114 ccgaggucga aacguacgut t
117 <210> SEQ ID NO: 12
118 <211> LENGTH: 21
119 <212> TYPE: DNA
120 <213> ORGANISM: siRNA targeted to influenza virus M transcript (antisense strand)
122 <400> SEQUENCE: 12
123 acguacguuu cgaccucggt t
126 <210> SEQ ID NO: 13
127 <211> LENGTH: 21
128 <212> TYPE: DNA
129 <213> ORGANISM: siRNA targeted to influenza virus PB-1 transcript (sense strand)
131 <400> SEQUENCE: 13
132 caggauacac cauggauact t
135 <210> SEQ ID NO: 14
136 <211> LENGTH: 21
137 <212> TYPE: DNA
138 <213> ORGANISM: siRNA targeted to influenza virus PB-1 transcript (antisense strand)
140 <400> SEQUENCE: 14

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Pls see item # 10 on
error summary sheet.

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Input Set : A:\MIT-0507.ST25.txt

Output Set : N:\CRF4\07162004\J674087.raw

Same errors
✓

141 guauccaugg uguauccugt t 21
 144 <210> SEQ ID NO: 15
 145 <211> LENGTH: 20
 146 <212> TYPE: DNA
 147 <213> ORGANISM: shRNA targeted to influenza virus NP transcript (sense portion)
 149 <400> SEQUENCE: 15
 150 ggaucuuauu ucuucggaga 20
 153 <210> SEQ ID NO: 16
 154 <211> LENGTH: 20
 155 <212> TYPE: DNA
 156 <213> ORGANISM: shRNA targeted to influenza virus NP transcript (antisense portion)
 158 <400> SEQUENCE: 16
 159 ucuccgaaga aaauagaucc 20
 162 <210> SEQ ID NO: 17
 163 <211> LENGTH: 57
 164 <212> TYPE: DNA
 165 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus
 NP transcript
 167 <400> SEQUENCE: 17
 168 tggatcttat ttcttcggag attcaagaga tctccgaaga aataagatcc ttttttc 57
 171 <210> SEQ ID NO: 18
 172 <211> LENGTH: 61
 173 <212> TYPE: DNA
 174 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus
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 176 <400> SEQUENCE: 18
 177 tcgagaaaaa aggatcttat ttcttcggag atctcttgaa tctccgaaga aataagatcc 60
 179 a 61
 182 <210> SEQ ID NO: 19
 183 <211> LENGTH: 55
 184 <212> TYPE: DNA
 185 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus
 PB1 transcript
 187 <400> SEQUENCE: 19
 188 tgatctgttc caccattgaa ttcaagagat tcaatggtgg aacagatctt ttttc 55
 191 <210> SEQ ID NO: 20
 192 <211> LENGTH: 59
 193 <212> TYPE: DNA
 194 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus
 PB1 transcript
 196 <400> SEQUENCE: 20
 197 tcgagaaaaa agatctgttc caccattgaa tctcttgaat tcaatggtgg aacagatca 59
 200 <210> SEQ ID NO: 21
 201 <211> LENGTH: 56
 202 <212> TYPE: DNA
 203 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to respiratory
 syncytial virus transcript
 205 <400> SEQUENCE: 21
 206 tgcgataata taactgcaag attcaagaga tcttgcagtt atattatcgt tttttc 56
 209 <210> SEQ ID NO: 22
 210 <211> LENGTH: 60
 211 <212> TYPE: DNA
 212 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to respiratory

syncytial virus transcript

214 <400> SEQUENCE: 22

same
error

RAW SEQUENCE LISTING

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Input Set : A:\MIT-0507.ST25.txt

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Some
Errors
✓

215 tcgagaaaaa acgataatat aactgcaaga tctcttgaat cttgcagtta tattatcgca 60

218 <210> SEQ ID NO: 23

219 <211> LENGTH: 19

220 <212> TYPE: DNA

221 <213> ORGANISM: siRNA targeted to respiratory syncytial virus transcript (sense strand)

223 <400> SEQUENCE: 23

224 cgataatata actgcaaga 19

227 <210> SEQ ID NO: 24

228 <211> LENGTH: 19

229 <212> TYPE: DNA

230 <213> ORGANISM: siRNA targeted to respiratory syncytial virus transcript (antisense strand)

232 <400> SEQUENCE: 24

233 tcttgcagtt atattatcg 19

236 <210> SEQ ID NO: 25

237 <211> LENGTH: 55

238 <212> TYPE: DNA

239 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus PA transcript

241 <400> SEQUENCE: 25

242 tgcaattgag gaggcctga ttcaagagat caggcactcc tcaattgctt ttttc 55

245 <210> SEQ ID NO: 26

246 <211> LENGTH: 59

247 <212> TYPE: DNA

248 <213> ORGANISM: oligonucleotide for construction of shRNA targeted to influenza virus PA transcript

250 <400> SEQUENCE: 26

251 tcgagaaaaa agcaattgag gaggcctga tctcttgaat caggcactcc tcaattgca 59

254 <210> SEQ ID NO: 27

255 <211> LENGTH: 9

256 <212> TYPE: DNA

257 <213> ORGANISM: loop sequence for shRNA

259 <400> SEQUENCE: 27

260 uucaagaga 9

263 <210> SEQ ID NO: 28

264 <211> LENGTH: 60

265 <212> TYPE: DNA

266 <213> ORGANISM: shRNA targeted to influenza virus NP transcript

268 <400> SEQUENCE: 28

269 cgggguggau cuuauuucu cggaggcagg uccacuccga agaaauaaga uccuuccug 60

272 <210> SEQ ID NO: 29

273 <211> LENGTH: 60

274 <212> TYPE: DNA

275 <213> ORGANISM: shRNA targeted to GFP transcript

277 <400> SEQUENCE: 29

278 cgggguugcg cuccuggacg uagccgcagg uccaggcuac guccaggagc gcuuuccug 60

281 <210> SEQ ID NO: 30

282 <211> LENGTH: 119

283 <212> TYPE: DNA

284 <213> ORGANISM: hairpin RNA targeted to GFP and influenza virus NP transcripts

286 <400> SEQUENCE: 30

287 cgggguggau cuuauuucu cggaggcagc gggguugcgc uccuggacgu agccgcaggu 60

RAW SEQUENCE LISTING

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Input Set : A:\MIT-0507.ST25.txt

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✓ same errors

289 ccaggcuacg uccaggagcg cauucccugu ccacuccgaa gaaauaagau ccuucccug 119

292 <210> SEQ ID NO: 31

293 <211> LENGTH: 119

294 <212> TYPE: DNA

295 <213> ORGANISM: hairpin RNA targeted to GFP and influenza virus NP transcripts

297 <400> SEQUENCE: 31

298 cggggguugcg cuccuggacg uagccgcagc gggguggauc uuauuucuuu ggaggcaggu 60

300 ccacuccgaa gaaauaagau ccuucccugu ccaggcuacg uccaggagcg cauucccug 119

303 <210> SEQ ID NO: 32

304 <211> LENGTH: 51

305 <212> TYPE: DNA

306 <213> ORGANISM: shRNA targeted to influenza virus NP transcript

308 <400> SEQUENCE: 32

309 ggaucuuauu ucuucggaga uucaagagau cuccgaagaa auaagauc u 51

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/674,087

DATE: 07/16/2004
TIME: 07:34:21

Input Set : A:\MIT-0507.ST25.txt
Output Set: N:\CRF4\07162004\J674087.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:17; Line(s) 165
Seq#:18; Line(s) 174
Seq#:19; Line(s) 185
Seq#:20; Line(s) 194
Seq#:21; Line(s) 203
Seq#:22; Line(s) 212
Seq#:24; Line(s) 230
Seq#:25; Line(s) 239
Seq#:26; Line(s) 248

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/674,087

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Input Set : A:\MIT-0507.ST25.txt

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